

## **ABSTRACT**

The subject of the invention concerns an exoskeletal system with:

- an exoskeletal weight-bearing structure composed of a reference structure and at least one mechanical segment,
- resources for acquiring movements and movement intentions, composed of resources for time related measurement of the effort coming from at least one biological segment and time-dependent resources for detecting the direction of the movements or movement intentions of these segments,
- resources for acquiring the spatial position of the mechanical segments in relation to the reference structure,
- operating resources providing the motor-power for the articulated mechanical segments,
- and control resources connected at their inputs to the movement and position acquisition resources, and at their outputs to the operating resources in order to control them.